

G. R. S. 58].

Previous references.

Later references.

1923-4

File No. 86 23

Serial Nos. 1-7

7 folders
There is a sealed cover
6/3/40. Preserve
19.3.40

GENERAL AND REVENUE SECRETARIAT.

Serial Nos. 7

Part B for April 2

SUBJECT

Report of the Chief Inspector of Mines re The
inspection of chrome mines in the state

B170

Page 13 Contains
The File Contains
Confidential
Cover

R. 19/24

Dear Sir,

Enclosed

is

for the year

1924-25

and the year

1925-26

and the year

1926-27

Yours

2

12/3



Do M 631.

Est. 80-23

CONFIDENTIAL.

BALLABROOIE,

HIGH GROUND,

BANGALORE.

2) 17th March 1924.

Dear Mr. Srinivasiengar,

I think it is desirable to depute the Chief Inspector of Mines to inspect all the chrome mines in the State and to make a report. I understand that the accounts kept by some of the licensees require scrutiny. He may also inspect the mines under the control of Messrs. Carley & Dowden and report as to what has happened to the chrome material which was lying on the site. If you agree with me, will you kindly give the necessary orders?

Yours sincerely,

K. R. Srinivasiengar, Esq., M.A
Member of Council.

3)

G.R.S. III-3]

Routine Notes.

Exhibit 80-28

[To be used only for notes, requisitions, etc., not intended for permanent record.]

Sub G.O. put up as
desired by the Rev Secy

Rev Secy) SMD
12/3
Don't come for
me keys
Thurs

Drop app
It is in the folder
for the Dawson person
before me

Don't see the author
12/3 12/3

44
/ See submit to
member keys

SMD
9/3
/

N.B. - Should routine notes be written on small slips,
the notes must be copied, or slips pasted on
this form.

P.T.O

Routine Notes.

[To be used only for notes, requisitions, etc., not intended for permanent record.]

To

The Chief Inspector of Mines
in Director of Gen
" Comptroller General
no. c 5559-41 of 13

RECEIVED
MAR 22 1924
U.S. DEPT. OF COMMERCE

Direct that a existing chrom
mines including those under
the control of the State, Oakeley,
Browns etc should be
inspected by the Chief Inspector
of Mines and that he should
ascertain the amount of
work done by the holders
of the prospecting licenses & also
the quantity excavated & the
quantity sold and the quantity
remaining in stock & the value
of stock and his report should
reach here before 15th of April 24

Draft issued & file present

22
19/3/24 *[Signature]* For Mrs Jones

SMR
20/3

Second member

506
20-3-24

[Signature]
SMR
20/3

N.B.—Should routine notes be written on small slips,
the notes must be copied, or slips pasted on
this form

Am A 1574/24

GEN. & REV. SECRETARIAT
22 MAR 1924
INDUST & COMMERCE

Serial
No.

2. From the Chief Inspector of Mines
no 1410 of 25.3.24.

states that the inspection work
referred to in st. 1 cannot be under-
taken unless add consent is
sanctioned

Previous reference received
from the Ch. Inspector of Mines has
been refd to the Genl Secy for
opinion on 21.3.24

26/3/24 *[Signature]*

The provⁿ of an add Grant
of Rs 500/- in addⁿ to the Rs 200/-
already allow^d for is for advs -
The Genl Secy may be consulted.

SMR

27/3

Rev Secy) Two items are the orders -

1. The Grant of Rs 500/- in
addⁿ to the Rs 200/- is a ^{happymade} ~~happymade~~
already suggested for Rs 500/-

2) The period to be covered
by the inspection - The inspecⁿ
may be begun from the date
of the order in Council -

I agree
in

R. S. Secy may be
consulted

By 3

NOTE—Contn. sheet.

709.
29.3.24

[Signature] R. S. Secy as regards
the Genl Secy
29/3/24

understood to have
been sent to Dewan
& not available here.
27.3.24

Serial
No.

When is the file on the
report of the registered amount
has been suggested

de
the
2.4.26

The file referred to above has been
sent to the 2nd division on 1.4.26
with Serial No. 35-78

Subd
2/4/26

3 In the Chief Inspector of Mines

D.O. No. D.C. 6005 of 1.4.26

states that his report on inspection
of Chrome Mines should cover the
period from date of commencement
of mining operations & that he may
take up the inspection work pending
additional
orders re ~~provision of~~ funds

4. From the Chief Inspector of Mines

No. D.O. 1476 of 27-3-26

Requests early orders re funds
(addl) required for the above

Memo No 1518

8

REPLY.

Office of the Dewan of Mysore.

(To be written on this margin.)

NOTE.

Dated... 27th April..... 1924

I order inspection of the Byrapur Block by the Chief Inspector of Mines. The report of his inspection, if received, may be submitted for my perusal without delay.

6/7
7.4

To

The Revenue Secretary to Govt.,
with compliments.

Mr A's report has not yet been received. Mr B's report was sent on Friday 15th via the Minister, & he CSR told me that he had since had his inspection, & would send his report in a few days. I have recorded the entry.

[Handwritten signature/initials]

[Handwritten signature/initials]

28/4

It has been used. Submitted on 3/5

Subd with the connected file 3/5/24 Rev S/L SML 9/5

G. R. S.

Genl

9)

GEN. & REV. SECRETARY
8 APR 1924
INDUSTRIES & COMMERCE
BOMBAY.

1,717

\$

119, 23

As per

Please forward the report
in inspection - & make
the in report - may
in inspection -
Please put it in
box - to send

627

Phase
one paper
put up
inter-off
SMD
8/4

L
P

File sent back
from the first draft
1-2 days after was
not in the initial
file (M)

Sub.

In G.O. no. S.C. 5559-61/Rev 80-23-1
dtd 19-3-24, the Ch. Insp. of Mines was
asked to submit his report by the 15th
of April

Kind attention is also invited
to the minute of the 2nd meeting of
29-3-24 (Page 4)

A memorandum (G.O.) is however
put up as per orders of the Secy

22
11/4/24

13

Left trouble as desired

Rev Secy

This has been for making an
an input matter and
marked as such 15/4/24

SMD

12/4

14/6/24 SMD 17/4

G. R. S. III-2]

General and Revenue
Secretariat.

61.11
4538
Spec File No. 80 of 1923.

Serial
No.

10

The Chief Inspector of Mines
Dorebury 17/4
with reference to S(3) requests him
to expedite his report.

GEN. & REV. SECRETARIAT
22 APR 1924
INDUSTRIES & COMMERCE
BRANCH.

6 From the Chief Inspector of Mines
No. D O 1606 of 22.4.24
Informs that the inspection
report is in course of preparation
& will be submitted shortly
for kind perusal

File (20) K.V. A
22.4.24
(21) S. N. R
22/4/24

II (member)
Submitted with papers
24/4/24
[Signature]

(22) K. R. S.
23/4
(23) K. V. A.
24/4/24
(24) T. R.
24/4/24

GEN. & REV. SECRETARIAT
24 APR 1924
INDUSTRIES & COMMERCE
BRANCH.
NOTE—Cont. Sheet

Serial
No.

7

From the Cl. Insp^r of names
No 1674 dt 30.4.24

Submits his report re inspection
of the work done on the Chrome
blocks in the Carnatic Chenna-
pazapattur & Mysore Taluk

Kind attention is invited
to the Comptroller D.O. dt 17.3.24
from the Dewan & G.O. No

5559-61/ECOL. 80-23-1 dt 19.3.24.

The report received from the
Cl. Insp^r of names is subd. for
order.

no.

3/5/24

For perusal & orders
SMD 3/5/24

Rev Secy)

II M. L. G.

86
55m

The report may be submitted for
the Dewan's perusal

In Bangalore commission limit the Bhakshali
blocks ~~now~~ one for which in Diamanahalli
subdivision 1025. mining lease in Byranga
block for which there are now ~~several~~ several
applications ^{under} in respect of ^{chrome} best ones in the area.

4798 (12)

G. R. S. III-2]

General and Revenue
Secretariat.

Feb

File No.

80

of 19

23

Serial
No.

It is considered that the 17 individuals who
have or will be in the country have justifiable
claims to participate in any scheme that may
be devised for the development of the
industry. It is recommended to recommend to
the Government to be given to a
company or group of individuals who are
prepared to put in the necessary capital
to work the area on a large scale & secure
the output. It is also proposed to grant
him recovery of a higher rate of royalty
on the basis of the actual value of the output
of the area of land & timber, instead
of ~~the~~ ^{recovery} a percentage of the net profit
of the business as presently decided. There
is a suggestion that the 17 individuals considered
here and it may be considered
on receipt of the detailed proposals which
will be submitted. The same principle
has been applied in the matter of an early date.

In personal

Duty

18/5

5/3/24

note sealed

NOTE—Contn. sheet.

2/2/24

8/5/24

See these proposals may be
forwarded to the member line
advice of the member as to
whether it is attached for member of

ON MYSORE GOVERNMENT SERVICE

L.C. 294 d. 3.5.24 from the Private Secy to H.M. Malharaj

To

The Secretary to the Government of Mysore,
Revenue Department

FROM
THE DEWAN'S OFFICE

u798

4

G. R. S. III-2]

General and Revenue
Secretariat.

Gen File No. 50 of 19 23

Serial
No.

M^r 17 Resolution proposals for the formation of
a company have been already sent - and I have
not made them but a copy of it is in
the L. D. 2 file for his opinion.
Please see the L. D. 2. 75
M^r 17 Resolution - 50

The proposals proposed by the Madras
27 also be included in the L. D. 2 file

12/5

Messrs A. M. Sen & B. Venkatesa
ramanaya have been ordered
to attend to the minerals survey
of this (Byapur) & other reserved
blocks in the L. D. 23

These papers may therefore
be duly recorded

12/5

12/5

GEN. & REV. SECRETARIAT
12 FEB 1920
INDUSTRIES & COMMERCE
BRANCH.

Encl. 80-23-1
Issue & Submit 15

Proceedings of the Government of
H.H. the Maharaja of Mysore.

Order JC 5559-61
Read:-

19-3-24

Dated
19-3-24

Signed by Mr P.W. Rao

25
17/3

With a view to ascertain the exact position of ^{the} Chrome Mining Industry in the State at present Government are pleased to direct that all the existing Chrome Mines should be inspected by the Chief Inspector of Mines. He is requested to ascertain the amount of work done by the holders of the prospecting license, ~~of~~ mining leases, the quantity excavated, the quantity sold and the quantity remaining in stock at the mines, He should ~~also~~ make enquiries as regards the manner in which the accounts are kept at the Mines. He will also inspect the Mines under the control of Messrs. Oakley, ~~and~~ Bowden company and report as to what has happened to the chrome material that was lying at the Mines.

The Director of Geology is requested to furnish immediately to the Chief Inspector of Mines a complete list of all places at which mining for chrome is now carried on with particulars of the license-holders

The inspection of Mines by the Chief Inspector of Mines should be carried out urgently and his report submitted to Government before the 15th of April

14/7/24
Rev. Secy

76

To

The Chief Inspector of Mines.

The Director of Geology.

The Comptroller to Govt.

SUBJECT.....

Diary No. of letter replied to.....

Section

File No.

Serial No.

General and Revenue Secretariat

Proceedings of the Government of
His Highness the Maharaja of Mysore.

()

the 191

Read—

Date of issue.....

Signed by.....

May this be

- i Printed ?
- ii treated as a standing order ?
- iii published in the Gazette,
English Part ?
- iv translated
- v placed at the disposal of the press ?
- vi published in the Gazette,
Kannada Part ?

Order Thereon No.

with a view to ascertain a
Government Consider it
exact portion of chrome
disposable to the chrome
mining in the state
mines in the state should
of present Govt. should
be inspected and are

18

~~as arranged - stated~~

to direct our all the Chrome
now being used shall
mines. ~~They~~ be inspected by
the Chief Inspector of mines
He is requested to ascertain
~~the accounts of the amounts~~
~~the amount of work done~~
~~being examined whenever necessary,~~
6
~~and a report submitted~~

to Govt at an early
date He is also requested
to inspect the mines under
the Control of Messrs Oakley
and Borden and report as to
what has happened
to the Chrome material
which was lying on the site.

SMP 17/9 Rev Secy

I the Chief Insp of mines
The Director of geology
The Comptroller

List of enclosures.

Copied by
Examined by

WD 1744-GPB-30,000-17-3-19
In
10-3

30352

D 4/15 (19)

D. M. E 7.]

IMMEDIATE.

DEPARTMENT OF MINES AND EXPLOSIVES.

Telegraphic address ;—
"MINESPECTOR."

OFFICE OF THE CHIEF INSPECTOR OF MINES IN MYSORE.

No. 1410
Encl.Dated Oorgaum, 25th March 1924.
(S. India.)

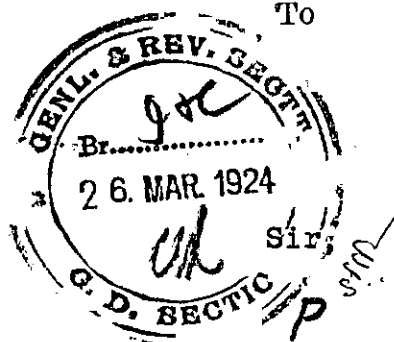
FROM

R. BOCQUET, Esquire, J. P.

CHIEF INSPECTOR OF MINES IN MYSORE.

GEN. & REV. SECT
26 MAR 1924
INDUSTRIES & COMMERCE
BRANCH.

To

K. V. Anantaraman, Esq., B.A.,
Offg: Secretary to the Government of
His Highness the Maharaja of Mysore,
Revenue Department, B a n g a l o r e.

With reference to Government Order No. I.C. 5559-61/Geol 80-23-1 dated 19th March 1924, directing me to carry out inspection of all the existing Chrome Mines in the State and to submit a report to Government before the 15th of April next, I have the honour to invite the attention of Government to this office letter No. 1064 dated 8th February 1924 requesting sanction for the appropriation of certain budget grants to enable me to carry out the usual annual inspections of the mines, &c., under the control of this Department as the grant under "Travelling Allowance" (officers) has been exhausted. The orders of Government on this point are still awaited and, in the meantime, the present order of Government requiring me to carry out an urgent and detailed inspection of all the Chrome Mines necessitates rapid marches by road and by rail. This will involve an additional cost of at least Rs.500/-, without taking into account the reappropriation already asked for.

Government have repeatedly pointed out in their several orders that on no account should budget grants of expenditure be exceeded and that in no case should an expenditure, which is not already provided for, be incurred without previous sanction.

Under the above circumstances it is not possible for me to move out of Head-quarters unless the sanction of Government is obtained for the reappropriation of funds already asked for and the additional sum of Rs.500/- required in connection with the inspection of the

above

Let to 2nd
Pr 21/3/24
3578

above Chrome Mines, as a special case, and the same is communicated to me.

The Government Order under reference does not specify the period the inspection report should cover i.e. whether it is from the date of commencement of mining operations for chrome in each case or for the last few years. Definite and clear instructions of Government are solicited on this particular point.

Very early sanction of Government is requested for the funds required in this connection for the reasons given above.

I have the honour to be,

Sir,

Your most obedient servant,

A. J. J. J. J.

CHIEF INSPECTOR OF MINES

IN MYSORE.

R.S.

21

SUBJECT

Diary No. of letter replied to

Section

geol

File No.

80 - 23

Serial No.

3

General and Revenue Secretariat

, the

192

No.

00

1 C 6005

Date of issue

2/4/24

To

Dear Sir

Signed by

Mr. K. V. Anantham

regarding

With reference to your letter no. 1410 of 26-3-24 ~~requesting orders for refund of the grant of Rs. 500/- in addition to the appreciation of Rs. 500/- asked for already~~ and the period to be covered by said inspection, I am desirous to state that your report should cover the period from the date of commencement of mining operations for chrome in each case & that you may take up

over.

22

The inspection work at the
separate orders will be
assumed as regards additional
allotment required for T. A
Yours sincerely

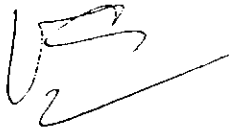
S.M.
31/3

Rev Sir

To

R. Bagnat, Esq. J. P.
Chief Inspector of Mines
in Mysore

12



List of enclosures.

Copied by

Examined by

URGENT

27
1-APR 1924
INDUSTRIES & COMMERCE
BRANCH.

DEPARTMENT OF MINES & EXPLOSIVES.

D.O.No. 1476

Office of the Chief Inspector of Mines
Mysore

Coorgaum, dated 31st March 1924

Dear Mr. Anantaraman,

I beg to invite reference to my letter No. 1410 dated 25-3-24 (Immediate) requesting sanction of Government for the requisite funds necessary for me to carry out the inspection of all the chrome blocks in the State and to submit a report before the 15th prox., ordered in their No. I. C. 5559-61/Geol. 80-23-1 dated 19th March 1924, since the budget grant under "Travelling Allowance" of this Department for the current year is already exhausted.

In view of the several recent orders of Government that budget grants should never be exceeded and no expenditure which is not already budgetted for incurred without the previous sanction of Government, matters in regard to this inspection, etc., are at present at a standstill. I would therefore request you to obtain and communicate the orders of Government whether the expenditure that has to be incurred in connection with the above tour will have their sanction or not.

Kindly notify me as soon as possible.

Yours sincerely,

Docquet

K. V. Anantaraman, Esq., B.A.,

Secretary to Government, Revenue Department

BANGALORE.

M.S.

*The sum in which has been
paid to the Coorgaum
respective*

SUBJECT

24

Diary No. of letter replied to

Section

80-23 Recd

File No.

80/23

Serial No.

8-

General and Revenue Secretariat

()

, the

192

No.

J.C. 6475

To

Date of issue

17-4-24

The Chief Inspector
of Mines

Signed by

Mr S. Narayana

Dear Sir

In making attention to

this office no. J. C. 6005-2
J. C. 6043-4 & 23/4/24
I am desirous to request
see that you
to kindly state when the

J. C. 6043-4 & 23/4/24
Encl 77-23-2

report of the inspection of
chromium mines may be
expected is sent to Govt
by the 15th instant.
Yours &c

Expedite your report re
the inspections of chrome
mines carried out by
you - I am further
to request you to intimate
when your report may be
expected here

VS

SMD
12/4

Secy. Gen. Secy.

over.

95

D. M. E. 14]

DEPARTMENT OF MINES AND EXPLOSIVES.

OFFICE OF THE CHIEF INSPECTOR OF MINES IN MYSORE.
~~GOVERNMENT OF MYSORE~~

D.O.No. 1606 - 24588 Dated Dargaum, 21st April 1924.

22 APR 1924
INDUSTRIES & COMMERCE
BRANCH.

File 80-23-6

Dear Sir,

86 5
With reference to your D.O. letter No.I.C.6475/Geol.
80-23-5 dated 17th inst. regarding the inspection of Chrome
Blocks recently carried out by me, I beg to inform you that
the report on same is in course of preparation and should
be ready for submission shortly.

Yours Sincerely

K. V. Anantaraman

K. V. Anantaraman, Esq., B.A.,
Offg. Secretary to the Government of
His Highness the Maharaja of Mysore,
Revenue Department, Bangalore.

In kind Personal

610
22-4-24

116
22.4.1924

11 in hand

SM 24/4

See 28/4 24/4 24-4-24

IMMEDIATE.

5798

26

D. M. E 7.]

DEPARTMENT OF MINES AND EXPLOSIVES.

Telegraphic address;—
"MINESPECTOR."

OFFICE OF THE CHIEF INSPECTOR OF MINES IN MYSORE.

No. 1674
Encls 2.*Registered.*Dated Oorgaum, 30th April 1924.
(S. India) Serial No. May 1924GEN. & REV. SECRETARIAT
3-MAY 1924
INDUSTRIES & COMMERCE
BRANCH:

FROM

R. BOCQUET, ESQUIRE, J. P.,

CHIEF INSPECTOR OF MINES IN MYSORE.

To

K. V. Anantaraman, Esq., B.A.,

Offg. Secretary to the Government of His Highness
the Maharaja of Mysore, Revenue Department,
BANGALORE.

MAY 1924

Sir,

Acting under instructions received from Government in their

order No. I.C.5559-61/Geol. 80-23-1 dated 19th March 1924 and subsequent correspondence on the subject, I have the honour to state that a detailed inspection of the work done on the Chrome Blocks in the Arsikere, Channarayapatna and Mysore Taluks, covered by current mining leases and prospecting licenses, has recently been carried out and completed and to submit my report in connection therewith for the information of Government.

Mr. K. Duraiswamier, Asst. Inspector of Mines, was present and helped me with the work while Mr. C. B. Oakley of Messrs. Oakley, Bowden & Co: and Mr. V. Manickavelu Mudaliar accompanied me on my inspections, as occasion required, and afforded all the help in their power to facilitate and expedite matters.

I have the honour to
Sir,
Your most obedient servant,

R. Bocquet.
CHIEF INSPECTOR OF MINES
IN MYSORE.

M.S.

CHROME MINING - MYSORE STATE.

Report on the inspections carried out of the blocks over
which Mining Leases & Prospecting Licenses are
current:-

SUNKADAHALLI - ARSIKERE TALUK, PROSPECTING LICENSE NO.605.

Messrs. Oakley, Duncan & Co: Ltd.

(application for a mining lease over the block is pending
 with Government).

Work done.- An irregular pit excavated in a field, the average measurements being

Length - 132 ft.	0	
Width - $126\frac{1}{2}$ "	0	= 166,980 cub. ft.
Depth - 10 "	0	

Appears to be an alluvial or placer deposit of pebbles embedded in a clayey sub-soil - a low grade proposition - from which, approximately, 2,500 tons of ore have been extracted. Of this amount, 212 tons are stacked on the block and 499 tons 5 miles from the block at railhead (Telegraph post 102 miles on M. & S. M. Railway), the balance, i.e. 1789 tons, having been disposed of. May be continued as a low-grade proposition with the hope of an improvement, but does not appear very promising.

2. PENSAMUDRA & KALENGERE - ARSIKERE TALUK - MINING LEASE NO.156.

The Mysore Chromite, Ltd. - Messrs. Oakley, Duncan & Co:

An outcrop proposition on which a fair amount of work has been done including four excavations and two shafts, but two of the excavations have been partly filled in making it impossible to take accurate measurements. However, an attempt has been made to arrive at a figure representing the quantity of ground excavated - partly by actual measurement and partly by estimate - giving a total of,

approximately,

approximately, 137,500 cubic feet made up as follows:-

<u>KALENGERE.</u>				cubic feet
Excavation No.1	-	125' x 31' x 25'	=	96,875
Shaft in ditto	-	25' x 9' x 6'	=	1,350
Oakley's Shaft S. of above	-	50' x 8' x 6'	=	2,400
Excavation No.2	-	20' x 15' x 15'	=	4,500
Shaft in ditto	-	40' x 6' x 4'	=	960
Excavation No.3	-	22' x 12' x 38'	=	10,032

PENSAMUDRA.

Excavation No.1	-	90' x 19' x 12.5'	=	21,375

				cft. 137,492

The ore is of low grade and, with the exception of digging out pebbles (float ore), no work of any importance is being done.

The quantity of ore extracted including float and pebbles is estimated at 15,000 tons of which 10,618 tons have been disposed of, leaving a balance in hand of 4,382 tons distributed as follows:-

Kalengere Mine	-	310 tons	Ø	
Pensamudra do.	-	81 "	Ø	
Kalengere rail-head		3,025 "	Ø	total 4,382 tons.
Pensamudra do.	-	966 "	Ø	

All the stacks of ore both at the mine and railhead were measured and their cubical contents worked out and the ore calculated at 19 cft. to the ton.

Although the indications at present are none too favourable, it might be worth while proceeding with development operations in the hope of striking some higher grade ore, especially as the property is within reasonable distance of rail-head and transport comparatively easy.

R. N.

3.

BYRAPUR - CHANNARAYAPATNA TALUK.

(old Prospecting License No.473; no Prospecting License or Mining Lease now current, but special permission granted to remove 11,000 tons ore, won previously, by 2nd July 1924.)

Messrs. Oakley, Bowden & Co:

The work done on this block during the time the license was current consists of two large excavations known as (a) Bowden's Shaft and (b) Oakley's Shaft.

Excavation (a) measures

Length	230 ft.			
Width	60 "		= 690,000 cft.	
Depth	50 "			
				total
				816,000 cft.

Excavation (b)

Length	70 ft.		
Width	50 "		= 126,000 cft.
Depth	36 "		

In excavation (a), a deposit of ore in the formation of a reef, averaging 24 ft. in width, was worked on from the outcrop downwards; in excavation (b) the average width of the exposure of chromite is 30 ft. both being of a massive description. Taking 9 cft. of ore as equivalent to a ton, this gives

from (a)	30,667 tons of ore and		total
from (b)	11,667	ditto	42,334 tons.

Of this, 33 % can be considered as waste giving the quantity of clean ore actually mined as 28,222 tons from the commencement of operations. From statistics available, the amount of ore exported totals 15,620 tons leaving a balance of reef ore broken and available on the block of 12,602 tons plus 1,746 tons pebbles.

At Honnekoppal, some four miles from the block and two from the Tiptur-Nuggihalli Road, ore from the mine has been carted, deposited and portion of it stacked totalling 4,596 tons.

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Again at Tiptur Station yard, stacks of ore were measured totalling 1,285 tons belonging to Messrs. Oakley, Duncan & Co: of which, it is stated, 750 tons were purchased from Mr. Manickavelu Mudaliar (Bhaktarahalli Block) and the balance (535 tons) carted from the Byrapur Block.

Mining operations are reported to have ceased in 1919 and there were no indications on the date of our inspection that any such operations had recently been carried out; the ore available on the block was being graded, stacked and transported to Tiptur Station yard in country carts.

Messrs. Oakley, Bowden & Co: have permission until 2-7-1924 to remove 11,000 tons of ore from the block. As the amount broken and ready for transport (viz:- 12,602 tons plus 1746 tons pebbles = 14,348 tons) exceeds the amount sanctioned, viz:- 11,000 tons, there is no necessity for any further mining work to be done.

Although a certain amount of undercutting has been resorted to in excavation (b) for the purpose of winning ore rapidly and the sides of the excavations have not been sloped or stepped according to Rule 11, Mysore Mining Rules, yet it would not require much time or money to put them in order to meet with the requirements of the Rules. In view of the order issued stopping all mining operations for the time-being, Mr. Oakley has been instructed to get parapet walls built round the top of each excavation to conform with Rule 7.

4. SHINDUVALLI BLOCK - MYSORE TALUK, MINING LEASE NO.147.

Mysore Chromite, Ltd. (Messrs. Oakley, Duncan & Co:)

Mining operations have been in progress for some years on this block and the workings have reached a maximum depth of 125 ft. in the southern end of the property and about 40 ft. in the northern. Owing to the presence of water in the lower workings, operations have been greatly hindered, but a steam pump has now been installed enabling work to proceed.

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The reef, or deposit, appears to be a true fissure vein, faulted or folded along the run of the strike and can be traced from one end of the property to the other. In places it is only a few inches wide and in others opens out to 3 ft.; at present in the deepest workings it averages 2 ft. in width. Originally this deposit was worked by excavations started from surface, but owing to the multiplicity of the veins and the width these excavations attained, as well as their increasing depth, instructions were given to fill them up before they became dangerous and mine the ore by means of shafts and tunnels. This has since been carried out and the workings put in order to conform with the mining rules. In two places the upper portion of the original excavation is still visible and these portions measure, respectively, 100' x 20' x 60' and 83' x 48' x 40', or 279,360 cft. It is impossible to measure the excavations filled in, but it is estimated, roughly, that these with existing pits, shafts, and development points in depth aggregate 1,400,000 cft. giving a total of 1,679,360 cft. of work done. The output of payable ore, including pebbles, amounts to 26,336 tons of which 25,359 tons have been exported leaving 977 tons stock, i.e. 59 stacks at the mine or 510 tons and 14 stacks at Kadakola Station or 467 tons.

Granted that the quantity of water in the workings does not rapidly increase and the ore body persists in depth and maintains a reasonable width, the results should be satisfactory, the grade of the ore being, at present, above the average. There is nothing particular to draw attention to either regarding the methods of work or the results obtained.

CHICKATTUR - MYSORE TALUK, MINING LEASE NO. 155.

Messrs. Oakley, Bowden & Co:

No work has been done on this block for some 2 or 3 years owing to a dispute between the Lessees and the Inamdar on whose property the block exists.

BHAKTARAHALLI - CHANNARAYAPATNA TALUK, MINING LEASE NO. 158.

A mining lease has been in existence over this block since 1st July 1922 and a large amount of work has been done on it since the commencement of operations. The geology of the Nuggihalli schist belt and the occurrence of chromite have been fully dealt with in the Records of the Mysore Geological Department (Department of Mines & Geology) vol. XXIII - 1919, Part II.

Again great difficulty was experienced in taking accurate measurements of the work done, as portion of this excavation (Pit No.2) has been filled in with spoil (waste) thrown back from the working face. However the following approximate measurements were taken allowing for the portion filled in:-

A deduction of 50 % has been made from this for the heavy overburden of talcose schist and capping of soil. The balance, viz: 1,050,000 cft. of ore extracted at 12 cft. to the ton, gives 87,500 tons. Of this, from statistics available, 64,418 tons of ore had been exported to the end of 1923 leaving a balance of 23,082 tons on hand. The figures giving the ore extracted from the commencement of operations are based on a unit of 12 cft. to a ton, but doubtless this unit has varied very greatly

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greatly from time to time owing to the variation in the grade of the ore. Hence it is impossible to make any accurate estimates.

At the time of our inspection, there were 518 stacks of ore on this block measuring 298,905.5 cft. which, at 18 cft. to the ton, gives 16,606 tons of ore. No other work of importance is being done on this block, while that in Pit 2 meets with the requirements of the Mining Rules except for a few minor items which were pointed out at the time.

At Chikkonhalli, Mining Lease No.159 and Jambur, Mining Lease No.160, no excavation work has been done, only a few prospecting pits and trenches put down. Float ore to the extent of 1,097 tons has been collected and stacked on the former block and 5,219 tons on the latter, making at the date of our inspection on the above 3 blocks a total of 22,922 tons. To this must be added 2,648 tons of ore stacked at Tiptur Railway Station yard giving a grand total of 25,570 tons on hand.

Statement 1 attached to this report, compiled from existing records, gives the output, export and balance of chrome ore available at the end of 1923 - viz: 32,310 tons - and dates from the commencement of operations. These figures are taken from the returns submitted, periodically, by the licensees and lessees concerned. As all the ore exported, from information received, has been shipped abroad, either from the ports of Madras or Marmagoa, the Railway Company's weigh-bills and vouchers can be called for - if considered necessary - to check the figures given of the tonnage exported. Again, to verify these figures, shipping documents should be available giving the freight - tonnage of ore - carried to European, American and other ports.

Statement 2 gives details of the amount of chrome ore broken, stacked and available on the dates of inspection at the various places mentioned. It will be observed that the total stock of ore has

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increased by nearly 20,000 tons during the past four months showing that operations have recently been vigorously pursued.

The accuracy of these figures, however, may be questioned in several ways - the impossibility of taking correct measurements of the excavations made for the reasons stated (partly filled in and their irregularity), the variation in the grade of ore which makes a very great difference in calculating the number of cubic feet per ton and the way the stacks of ore are built and packed, on which the cubical contents naturally depend to a very large extent. To go into all these matters thoroughly was impossible in the limited time placed at my disposal. Hence the figures given must be taken as approximate in view of the above facts, although every effort was made to arrive at accurate results.

CONCLUSIONS.

The action of Government in having recently withdrawn the reservation placed upon this mineral has undoubtedly given the chrome ore industry in the State an impetus which, with judicious handling while the demand lasts and the market is favourable, might be profitably fostered.

The most promising and easily worked deposits are those occurring on the Nuggihalli schist belt in the Channarayapatna and Arsikere Taluks of the Hassan District and the two most important, according to existing indications and work done are the Byrapur and Bhaktarahalli Blocks, which adjoin each other. Here the ore-bodies are of a massive and well-defined nature, already proved to a depth of 40 - 50 ft. with every appearance of continuing. The chief drawback consists in the lack of transport facilities and the distance the mines are situated from the nearest Railway Station (Tiptur) - Mining and sorting are comparatively easy and cheap, but to transport the ore 3 to 4 miles across country and 7 to 8 miles along one of the most deplorable roads imaginable costs anything, with tolls, from Rs 6/- to 8/- per ton. This is

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is a heavy initial charge which might easily be reduced by (a) constructing a road suitable for mechanical transport, (b) laying a tram-line or light railway between the blocks and Tiptur and (c) by the erection of an aerial ropeway which, however, would require motive power to drive it, the country around not being sufficiently hilly for gravity to have any effect.

The work done on these two blocks has been in the hands of Messrs. C. B. Oakley and V. Manickavelu Mudaliar, respectively. Over the former (Byrapur), no license or lease is at present current, but I understand that Messrs. Oakley, Bowden & Co: have acquired the surface rights over this area. Mining Leases have been granted to Messrs. V. Manickavelu Mudaliar & Son over the Bhaktarahalli, Chikkonhalli and Jambur blocks for a period of 30 years from the 1st July 1922 and therefore have still 28 years to run.

There appears to be no doubt that the persons mentioned - especially Messrs. V. Manickavelu Mudaliar & Son - have certain statutory and proprietary rights over these areas, both on account of the outlay made and work done, which cannot be ignored - vide the rules in force which govern the granting of prospecting licenses and mining leases. These may have been modified or amended from time to time to suit local conditions, but in the main remain the same. Hence, whatever action is decided upon regarding the future of this industry, the holders of current licenses and leases have justifiable claims to participate.

It does not appear advisable for Government to embark on any scheme, which might involve considerable sums of money; owing to the fact that the "boom" in the industry may only last a short time. On the other hand, the monopoly might be given to a group of individuals who are prepared to put up capital, work on a larger scale and increase the output the royalty being based on a sliding scale according to

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the grade of ore and the price obtained. All facilities should be afforded to such a group and the methods of transport improved, otherwise a large proportion of the ore would never reach rail-head.

A. Doquet.

Oorgaum, K.G.F.,

30th April 1924.

M.S.

CHIEF INSPECTOR OF MINES

IN MYSORE.

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Statement 1.

CHROME MINING IN MYSORE STATE.

From the commencement of operations to the end of 1923 as obtained from office records.

<u>N a m e</u>	<u>O u t p u t (tons)</u>	<u>E x p o r t (tons)</u>	<u>B a l a n c e (tons)</u>
(1) Messrs. Oakley Bowden, Duncan and allied Companies, (1915 to the end of December 1923)	59,636.33	45,496.76	14,139.57
(2) " V. Manickavelu Mudaliar & Son, (1913 to the end of December 1923)	76,833.96	64,417.84	12,416.12
(3) Mr. J. Burr (1913 to the end of December 1923)	5,280.00	1,575.00	3,705.00
(4) " V. N. Krishna Iyer (1913 to the end of December 1923)	2,050.00	...	2,050.00
	143,800.29	111,489.60	32,310.69

V. N. Krishna Iyer

CHIEF INSPECTOR OF MINES IN MYSORE.

Oorgaum, Kolar Gold Field,
30th April 1924.

M.S.

Statement 2.

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STOCK OF CHROME ORE IN STACKS, ETC., ON THE VARIOUS BLOCKS AS MEASURED
ON THE 7th, 8th, 9th, 10th, 11th and 13th April, 1924.

Messrs. Oakley, Bowden and Oakley, Duncan & Co:

Name of Block		Tons	Total quantity in tons	
Kalengere	..	310		
Pensamudra	..	81		
Rail-head at Kalengerè		3,025		
Do. Pensamudra		968		
		-----	4,382	✓
Sunkadahalli	..	212		
Do. Rail-head		499		
		-----	711	✓
Shinduvalli	..	510		
Kadakola Station yard		467		
		-----	977	✓
			-----	6,070 ✓

Byrapur.

Stacks at Honnekoppal	4,596		
do. on Block (pebbles)	1,746		
Reef-ore broken on the block	12,602		
	-----		18,944 ✓
Stacks at Tiptur			
Station yard ..	1,285		1,285 ✓
	-----		-----
		Total ...	26,299 ✓
		-----	-----

Messrs. V. Manickavelu Mudaliar & Son.

Bhaktarhalli Block	..	16,606		
Chickkonhalli "	..	1,097		
Jambur "	..	5,219		
Tiptur Railway				
Station yard ..		2,648		
		-----	Total ..	25,570 ✓
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AVAILABLE CHROME ORE ON THE DATES OF INSPECTION. 51,869 ✓

Oorgaum, K. G. F.,

24th April 1924.

M.S.

A. Jacquet.
CHIEF INSPECTOR OF MINES
IN MYSORE.